

# 2050W MAGNESIUM ROUTER

MAG2050R  
INSTRUCTION MANUAL  
050922 ED6 JJ



# GMC<sup>®</sup>

**GLOBAL MACHINERY COMPANY**

**3 YEAR**  
REPLACEMENT WARRANTY  
**30 DAY**  
SATISFACTION GUARANTEE

# Contents



<b>Warranty</b>	<b>2</b>
<b>Introduction</b>	<b>3</b>
<b>Environmental protection</b>	<b>3</b>
<b>Description of symbols</b>	<b>3</b>
<b>Specifications</b>	<b>3</b>
<b>Safety instructions</b>	<b>4</b>
<b>Additional safety rules for electric routers</b>	<b>5</b>
<b>Contents of carton</b>	<b>6</b>
<b>Unpacking</b>	<b>6</b>
<b>Assembly</b>	<b>6</b>
<b>Know your product</b>	<b>7</b>
<b>Installing and removing collets</b>	<b>8</b>
<b>Installing and removing router bits</b>	<b>8</b>
<b>Adjusting the cutting depth</b>	<b>8</b>
<b>Variable speed control</b>	<b>9</b>
<b>Using the parallel guide</b>	<b>9</b>
<b>Dust extraction</b>	<b>10</b>
<b>Using the template guide</b>	<b>11</b>
<b>Switching on and off</b>	<b>11</b>
<b>Making a cut</b>	<b>11</b>
<b>Working hints for your router</b>	<b>12</b>
<b>Maintenance</b>	<b>12</b>
<b>Power cord maintenance</b>	<b>12</b>

## Full 3 Years Light Trade Warranty

Whilst every effort is made to ensure your complete satisfaction with this tool, occasionally, due to the mass manufacturing techniques, a tool may not live up to our required level of performance and you may need the assistance of our service department.

This product is warranted for a 3-year period for light trade use from the date of the original purchase. If found to be defective in materials or workmanship, the tool or the offending faulty component will be replaced free of charge with another of the same item. A small freight charge may apply.

The warranty replacement unit is only made available by returning the tool to the place of purchase with a confirmed register receipt. Proof of purchase is essential. We reserve the right to reject any claim where the purchase cannot be verified.

This warranty does not include damage or defects to the tool caused by or resulting from abuse, accidents, alterations or commercial or business use.

It also does not cover any bonus accessories unless the tool is a GMC Platinum Professional model.

Please ensure that you store your receipt in a safe place.

Conditions apply to the above warranty.

If you need direction of what constitutes a free of charge warranty claim, please review the guide given on the rear of the Receipt Holder. An indication is given as to the types of claim that are permissible, and those that are not.

## Dear Customer

If you require any help with your product, whether it is a Warranty claim, spare part or user information, please phone our Help Line for an immediate response. Phone 1300 880 001 in Australia or 0800 445 721 in New Zealand.

## Introduction

Your new GMC power tool will more than satisfy your expectations. It has been manufactured under stringent GMC Quality Standards to meet superior performance criteria.

You will find your new tool easy and safe to operate, and, with proper care, it will give you many years of dependable service.

**CAUTION.** Carefully read through this entire Instruction Manual before using your new GMC Power Tool. Take special care to heed the Cautions and Warnings.

Your GMC power tool has many features that will make your job faster and easier. Safety, performance, and dependability have been given top priority in the development of this tool, making it easy to maintain and operate.

## Environmental protection



Recycle unwanted materials instead of disposing of them as waste. All tools, hoses and packaging should be sorted, taken to the local recycling centre and disposed of in an environmentally safe way.

## Description of symbols

The rating plate on your tool may show symbols. These represent important information about the product or instructions on its use.



Wear hearing protection.

Wear eye protection.

Wear breathing protection.



Double insulated for additional protection.



N380

Conforms to relevant standards for electromagnetic compatibility.

## Specifications

Voltage	230–240V~50Hz
Power rating	2050W
No load speed	8000–23000 min <sup>-1</sup>
Maximum cutting depth	60mm
Collet Capacity:	12.7mm (1/2"), 6.35mm (1/4")

Variable speed settings:

Dial Indication	1	8000 min <sup>-1</sup>	2	10000 min <sup>-1</sup>
	3	14500 min <sup>-1</sup>	4	18500 min <sup>-1</sup>
	5	21000 min <sup>-1</sup>	6	23000 min <sup>-1</sup>

**NOTE.** These speeds are approximate values (within 20%) and are for reference purposes only

Sound pressure level:	85.7dB(A)
Weight:	6.5kg

## Safety instructions

**WARNING.** Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term “power tool” in all of the warnings below refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

### Save these instructions

#### Work area

- **Keep work area clean and well lit.** Cluttered and dark areas invite accidents.
- **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Power tools create sparks which may ignite the dust or fumes.
- **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

#### Electrical safety

- **Power tool plugs must match the outlet.** Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- **Do not abuse the cord.** Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- **When operating a power tool outdoors, use an outdoor extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.

## Personal safety

- **Stay alert, watch what you are doing and use common sense when operating a power tool.** Do not use a power tool while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.
- **Use safety equipment.** Always wear eye protection. Safety equipment such as a dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- **Avoid accidental starting.** Ensure the switch is in the off-position before plugging in. Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
- **Remove any adjusting key or wrench before turning the tool on.** A wrench or a key that is left attached to a rotating part of the power tool may result in personal injury.
- **Do not overreach.** Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- **Dress properly.** Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- **If devices are provided for the connection of dust extraction and collection facilities ensure that these are connected and properly used.** Use of these devices can reduce dust-related hazards.

#### Power tool use and care

- **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.

- **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- **Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- **Maintain power tools.** Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from intended could result in a hazardous situation.
- Ensure your mains supply voltage is the same as your tool rating plate voltage.
- Your tool is double insulated for additional protection against a possible electrical insulation failure within the tool.
- Always check walls, floors and ceilings to avoid hidden power cables and pipes.
- After long working periods external metal parts and accessories could be hot.
- Always wear eye and ear protection and use a dust mask.
- Handle router bits with care, they can be extremely sharp.
- Check the bit carefully for signs of damage or cracks before use. Replace cracked or damaged bits immediately.
- Remove all nails, screws and other objects from the workpiece. You can damage the bit and the tool by cutting into a nail or other metal. It can also present a safety hazard.
- Always use both handles and make sure that you have a good grip on the router before proceeding with any work.
- Keep your hands away from the rotating bit.
- Make sure that the bit is not in contact with the workpiece when you switch the machine on.
- Before using the tool to make a cut, switch on and let it run for a while. Watch for vibration or wobbling that could indicate an improperly installed bit.
- Take notice of the direction of rotation of the bit and the direction of feed.

## Service

- **Have your power tool serviced by a qualified repair personnel using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

## Additional safety rules for electric routers

- Remove the plug from the socket before carrying out any adjustment, servicing or maintenance.
- Fully unwind cable drum extensions to avoid potential overheating.
- When an extension cable is required, you must ensure it has the right ampere rating for your power tool and is in a safe electrical condition.
- Do not leave the machine running unattended. Operate the tool only when controlled by both hands.
- Always switch off and wait until the bit has come to a complete standstill before removing the machine from the workpiece.
- Do not touch the bit immediately after operation. It may be extremely hot and could burn your skin.
- Rags, cloths, cord, string and the like should never be left around the work area.
- Use safety equipment including safety goggles or shield, ear protection, dust mask and protective clothing including safety gloves.

**WARNING.** Before connecting a tool to a power source (power point receptacle, outlet, etc.) be sure that the voltage supply is the same as that specified on the nameplate of the tool. A power source with a voltage greater than that specified for the tool can result in serious injury to the user, as well as damage to the tool. If in doubt, do not plug in the tool. Using a power source with a voltage less than the nameplate rating is harmful to the motor.

The tool must be used only for its prescribed purpose. Any use other than those mentioned in this Manual will be considered a case of misuse. The user and not the manufacturer shall be liable for any damage or injury resulting from such cases of misuse.

The manufacturer shall not be liable for any changes made to the tool nor for any damage resulting from such changes.

Even when the tool is used as prescribed it is not possible to eliminate all residual risk factors. The following hazards may arise in connection with the tool's construction and design:

- Damage to hearing if effective earmuffs are not worn.
- Harmful emissions of wood dust when the machine is used in closed rooms. Always use supplementary dust extraction.
- Always remove the plug from the mains socket before making any adjustments or maintenance, including changing the bit.
- Contact with the bit.
- Reaching into the housing whilst the tool is running and making contact with the bit.
- Kickback of workpiece and parts of workpiece.
- Bit fracture.
- Catapulting of faulty pieces from the bit.
- Do not use bits that are deformed or cracked.
- Always remove the plug from the mains socket before making any adjustments or maintenance, including changing the bit and setting the depth of cut.

## Contents of carton

The router is supplied with the following accessories as standard:

- 2 Collets 1/4" (6.35mm), 1/2" (12.75mm)
- Parallel guide with dust extraction adaptor
- Dust extraction adaptor
- Template guide
- Wrench
- Dust cover

## Unpacking

Due to modern mass production techniques, it is unlikely that your GMC Power Tool is faulty or that a part is missing. If you find anything wrong, do not operate the tool until the parts have been replaced or the fault has been rectified. Failure to do so could result in serious personal injury.

## Assembly

The GMC Electric Router is packed, fully assembled except for the dust extraction adaptor and parallel and template guide.

## Know your product

1. Left handle
2. Right handle
3. Variable speed dial
4. Depth gauge
5. Depth gauge locking knob
6. Depth adjustment
7. Depth lock lever
8. 8-Position turret stop
9. On/off trigger switch
10. Lock-on button
11. Spindle lock button
12. Collet nut
13. Base plate
14. Dust extraction adaptor
15. Parallel guide locking knob (x2)
16. Template guide
17. Parallel guide
18. Wrench
19. Dust cover
20. Micrometer depth adjustment
21. Dust extraction tube
22. Dust cover locking latch
23. Micrometer fence adjustment
24. Dust extraction tube lock
25. Parallel guide dust extraction adaptor



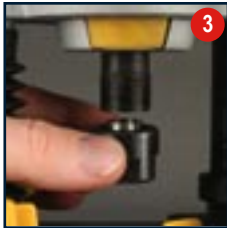


## Installing and removing collets

**CAUTION.** Always ensure that the router is switched off and unplugged from the mains supply before installing or removing a collet.

Depending on the size of the router bit the collet may need to be changed to allow use of larger or smaller diameter router bits.

1. Depress and hold the spindle lock button to stop the spindle from turning.
2. Whilst holding the spindle lock button loosen the collet nut (12) by rotating it using the wrench provided.
3. Remove the collet nut followed by the collet.



4. Install the new collet into the assembly; this is sometimes easier if the router is plunged to its full depth.
5. Install the collet nut and tighten by hand.
6. Firmly tighten the collet nut by depressing and holding the spindle lock button and then tightening the collet nut using the wrench provided.



**WARNING.** Do not tighten the collet nut without a bit in place or you may break the centre piece of the collet.

## Installing and removing router bits

**CAUTION.** Always ensure that the router is switched off and unplugged from the mains supply before installing or removing a router bit.

**NOTE.** Ensure the router bit being used has the correct shank size matching the inserted collet, that is a 1/2" router bits with the 1/2" collet. Never use the incorrect router bit in a collet of the wrong size, this can be very dangerous.

1. Loosen the collet nut (12) by depressing and holding the spindle lock button (11) and then rotating the collet nut.
2. Insert the router bit ensuring that the shaft of the bit goes all the way into the collet.



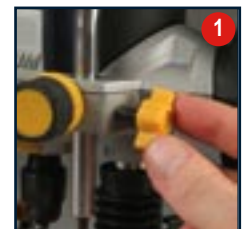
3. Tighten the collet nut assembly by depressing and holding the spindle lock button and then tightening the collet nut.

**CAUTION.** Ensure the bit is firmly secured before commencing operation.

## Adjusting the cutting depth

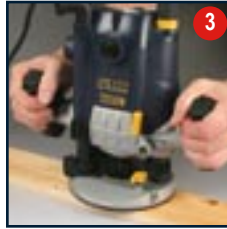
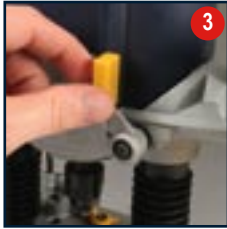
**CAUTION.** Always ensure that the router is switched off and unplugged from the mains supply before adjusting the depth of cut.

1. Place the machine on a flat surface and loosen the depth gauge locking knob (5).

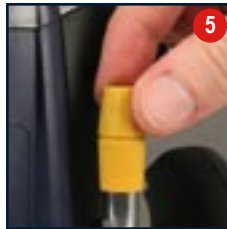




2. Allow the depth gauge (4) to make contact with the turret stop (8).
3. Loosen the depth lock lever (7) and lower the machine body until the router bit just touches the flat surface. Tighten the depth lock lever to maintain the position of the bit just touching the flat surface.



4. Take note of the measurement on the depth label.
5. Raise the depth gauge (4) and tighten using the depth gauge locking knob (5). The difference in distance between the new measurement and the original measurement will be equivalent to the depth of cut. Use the depth adjustment (6) to set the cutting depth. The micrometer depth adjustment (20) can be used for precision setting. One complete turn of the micrometer depth adjustment represents 1mm.



6. Loosen the depth lock lever (7) and raise the machine body.

7. When making a subsequent cutting operation, the final depth of cut will be reached when the depth gauge (4) touches the turret stop (8).
8. The depth turret stop (8) has eight steps. By rotating the depth turret stop it is possible to quickly and easily set the depth at eight different levels. This procedure is particularly useful when you wish to make a deep cut in a number of stages.



## Variable speed control

The variable speed dial (3) is located on the right hand side near the power cord.

1. Adjust the variable speed dial (3) to suit different working materials. The tool cuts quicker and smoother at different speeds when working in different woods or in plastic or aluminium.
2. Turn the dial to a higher number for faster speed, turn the dial to a lower number to reduce the speed.
3. Determine the optimum speed by making a trial cut in a scrap piece of material.



**NOTE.** Using the correct speed for the job increases the life of the bit.

## Using the parallel guide

The parallel guide (17) is an effective aid to cutting in a straight line when chamfering or grooving.

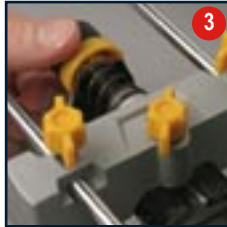
1. Loosen the parallel guide locking knobs (15).



2. Feed the bars on the parallel guide through the holes in the router base plate (13) on the right hand side of the router in the feed direction. This will assist in keeping the guide flush with the side of the work piece.



3. Adjust the distance between the router bit and parallel guide by moving the guide until it is at the correct distance.



4. Tighten the parallel guide locking knobs (15) to hold the parallel guide in position.



5. It is possible to make fine adjustments to the distance between the parallel guide and the router bit, by loosening the centre lock on the guide and turning knob (23). One complete turn of the knob is equivalent to 1.5mm.



6. Tighten the centre lock on the guide when you have made your fine adjustment.

**NOTE.** If the distance between the side of the work piece and the cutting position is too wide, or the side of the work piece is not straight, firmly clamp a straight board to the work piece and use this as a guide against the router base.

## Dust extraction

There are three different ways of connecting the router to a dust extraction system or to a household vacuum cleaner nozzle allowing the dust to be efficiently removed as the tool is used.

### Method 1

- **Method 1** (when using the parallel guide and cutting a shape on the edge of a workpiece)

Connect the dust extraction adaptor (25) to the parallel guide. A vacuum system can then be connected to adaptor.



- **Method 2** (when connecting a vacuum system to the top of the router)

Insert the dust extraction adaptor (14) in the hole in the router housing above the dust extraction tube (21).

Ensure that the dust extraction tube is in its lowest position and is locked into place with lock (24).

Connect a vacuum system to the adaptor.



### Method 2

- **Method 3** (when connecting a vacuum system to the base plate of the router)

Unlock dust extraction tube, raise the tube to its highest position and lock it in place with lock (24).

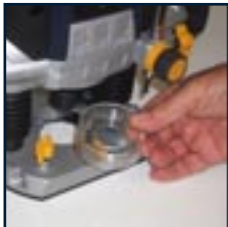
Insert the dust extraction adaptor in the hole in the base plate under the dust extraction tube.

Connect a vacuum system to the adaptor.



### Method 3

**CAUTION.** When working on metal surfaces, do not use any dust extraction system such as a vacuum cleaner. Sparks can ignite the dust.



In all three methods it is necessary to add the dust cover (19) in the hole in the base plate under the spindle and to lock it in place with the locking latch (22).

**NOTE.** With the dust cover in place it is not possible to use a router bit with a cutting diameter greater than 27.4mm (1”).

## Using the template guide

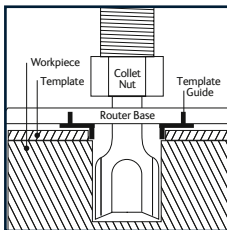
The template guide can be used in various ways:

- Producing duplicates of a particular design of an original shape.
- In conjunction with a template, producing decorative features.
- Repetitive cutting shapes.



If you wish to make your own templates it is best to use a hardwood such as plywood. Use a piece that is just thicker than the depth of the template guide. Allow for the thickness of the guide in your template to ensure that the work piece is cut to the correct size.

1. To attach the template guide (16) turn the router upside down and remove the two fixing screws in the centre of the router base.
2. Insert the template guide into the base of the router and secure using the two fixing screws supplied.



## Switching on and off

**CAUTION.** Before plugging in the tool always check that the trigger switch engages and disengages properly.

1. First set up the work so you are ready to cut your wood.
2. Plug the router into the mains socket.
3. Press the on/off trigger switch (9) to turn on the router.
4. To switch off, just release the the On/Off switch (9).
5. If you require the router to run continually without having to continue to apply pressure to the trigger switch, depress the lock-on button (10) to lock the trigger switch on.
6. The router will now run in the 'locked-on' condition.
7. If the switch is in the 'locked-on' position depress the on/off trigger switch and then release the switch the router will stop.

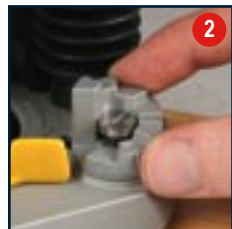


## Making a cut

Your router can be used to make specialty cuts and shapes in the surface and on the edge of wood. It accepts a wide range of bits that are each designed for a specific cut or shape.

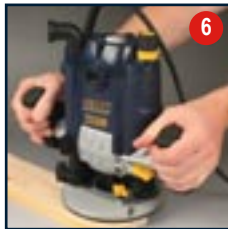
Make all your adjustments as described in the previous sections.

1. Insert and secure your router bit.



2. Adjust the height as required for the application.
3. Place the base plate (13) on the work piece ensuring that the bit is not in contact with the material to be cut.
4. Connect the router to the power supply.

5. Turn the router on. Ensure you have a firm grip on both handles. Wait for the bit to attain full speed.
6. Lower the router body and lock it in position at the desired depth of cut.
7. Move the tool over the work piece surface, keeping the base plate flush and advancing smoothly until cutting is complete.



## Working hints for your router

**DO NOT** use the curved part of the router base against a simple guide piece.

- Place the base plate (13) on the work piece ensuring that the bit is not in contact with the material to be cut.
- Connect the router to the power supply.
- Turn the router on and wait for the bit to attain full speed. Please refer to the section “SWITCHING ON AND OFF”.
- Feed the router so that the bit turns into the work, not away from it.
- Move the router over the work piece surface, keeping the base plate flush and advancing smoothly until cutting is complete.
- Keep the cutting pressure constant, taking care not to overload the router causing the motor to slow excessively.
- When edge cutting, the work piece surface should be on the left side of the bit in the feed direction.
- On very hard woods or problem materials it may be necessary to make more than one pass at progressive settings until the desired depth of cut is achieved.
- Moving the router too fast may cause a poor quality of cut and can damage the bit or the motor.
- Moving the router too slowly may burn or mar the cut.

- The proper feed rate will depend on the bit size, the type of material being cut and the depth of the cut. Practice first on a scrap piece of material to gauge the correct feed rate and the cut dimensions.
- Always switch off and wait until the bit has come to a complete standstill before removing the router from the work piece.

**CAUTION.** Always use two hands to hold the router. Where possible, clamp the work piece to the bench.

**CAUTION.** When using this router to cut flat panels such as kitchen work surfaces, before joining please ensure that you use an appropriate jig together with the correct guide bush. **DO NOT** use the curved part of the router base against a simple guide piece.

## Maintenance

Regularly check that all the fixing screws are tight. They may vibrate loose over time.

Keep the tool's air vents unclogged and clean at all times.

Regularly check to see if any dust or foreign matter has entered the grills near the motor and around the switches. Use a soft brush to remove any accumulated dust. Wear safety glasses to protect your eyes whilst cleaning.

Re-lubricate all moving parts at regular intervals.

If the body of the tool needs cleaning, wipe it with a soft damp cloth. A mild detergent can be used but nothing like alcohol, petrol or other cleaning agent.

Never use caustic agents to clean plastic parts.

**CAUTION.** Water must never come into contact with the tool.

## Power cord maintenance

If the supply cord needs replacing, the task must be carried out by the manufacturer, the manufacturer's agent, or an authorised service centre in order to avoid a safety hazard.









# Carefully read the entire Instruction Manual before using this product.

Before returning this product for a Warranty Claim or any other reason  
Please Call 1300 880 001 (Australia) or 0800 445 721 (New Zealand)

When you make your call, please have the following information at hand:

■ GMC Product Type ■ GMC Product Code

A GMC Service Engineer will take your call and, in most cases, will be able to solve your problem over the phone.

You are welcome to use this phone-in service to make suggestions or give comments about any GMC product.

With continuing product development changes may have occurred which render the product received slightly different to that shown in this instruction manual.

The manufacturer reserves the right to change specifications without notice.

**Note:** Specifications may differ from country to country.

 Helpline 1300 880 001 (Australia) or 0800 445 721 (New Zealand)

The GMC 777 Helpline operates from 7am to 7pm, 7 days a week (EST). This allows you to contact GMC directly with any queries and technical questions you have regarding products.

Save this Manual for future reference

GMC Head Office:

45-55 South Centre Road, Melbourne Airport, Victoria, Australia 3045  
Telephone (03) 8346 1100 Fax (03) 8346 1200

**GMC**  
GLOBAL MACHINERY COMPANY

